

**ELECTRO/ENVIRONMENTAL
(KC-135)**

1. Objective. As prescribed in AFI 38-201, *Determining Manpower Requirements*, formerly designated as AFR 8-10, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower required to accomplish the tasks described in the work center description for varying levels of workload volume.

2. Authority. Air National Guard (ANG) Regulation 66-14, *Maintenance Management*, 13 July 1988, contains policy and procedural guidance for the Electro/Environmental work center. This ANGMS was developed in accordance with the functional review procedures depicted in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, formerly AFR 25-5.

3. Applicability. This standard applies to all ANG KC-135 units with an established Electro/Environmental function. This standard applies to peacetime operations only.

4. Standard Data:

- a. Classification. Type III.
- b. Approval Date. 25 November 1992.
- c. Man-Hour Data Source. Operational Audit (historical records and technical estimate techniques).
- d. Standard Man-Hour Equation. $Y = 17.43 + 2.703X$.
- e. Workload Factor:
 - (1) Title: A Programmed Flying Hour.
 - (2) Definition: The average monthly programmed flying hours.
 - (3) Source of Count. USAF Program Document, Volume II, maintained by NGB/FM.

5. Application Instructions:

- a. The valid man-hour range for this ANGMS is 524.28 through 873.81.
- b. The application instructions are as follows:
 - (1) Obtain the most current workload factor value for the workload factor as outlined in paragraph 4e above.
 - (2) Substitute this value in the man-hour equation for X and divide the resulting man-hours by the current civilian Man-Hour Availability Factor to determine requirements.
 - (3) Use the man-hour break point table developed by HQ USAF/PRQE to determine the whole manpower requirements.
 - (4) On AF Form 1113, Manpower Requirement column, find the column which represents the number of whole manpower requirements. Read up and down the column and across to the Air Force Specialty Title column to determine requirements by Air Force Specialty Code.

6. Statement of Conditions:

- a. There were no general conditions (environment, equipment, or facility) which had an impact on the development or application of this manpower standard.
- b. There were no approved enhancements that impacted the man-hour equation for this manpower standard.

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2 Attachments
1. Work Center Description
2. Standard Manpower Table

WORK CENTER DESCRIPTION

Electro-Environmental (KC-135)

DIRECT:

1. ON EQUIPMENT MAINTENANCE:

1.1. MAINTAINS ELECTRICAL POWER SUPPLY SYSTEM. Inspects, troubleshoots, and repairs aircraft equipment.

1.1.1. MAINTAINS AIRFRAME ELECTRICAL SYSTEM.

1.1.2. MAINTAINS AUXILIARY AIRCRAFT EQUIPMENT.

1.1.3. MAINTAINS LANDING GEAR ELECTRICAL COMPONENT.

1.1.4. MAINTAINS FLIGHT CONTROL ELECTRICAL.

1.1.5. MAINTAINS ENGINE ELECTRICAL SYSTEM.

1.1.6. MAINTAINS AUXILIARY POWER UNIT (APU) ELECTRICAL SYSTEM.

1.1.7. MAINTAINS AIR CONDITIONING, PRESSURIZATION, AND SURFACE CONTROL.

1.1.8. MAINTAINS GENERATOR SYSTEM.

1.1.9. MAINTAINS LIGHT SYSTEM.

1.1.10. MAINTAINS HYDRAULIC PNEUMATIC POWER SUPPLY (WIRING OR SWITCH).

1.1.11. MAINTAINS FUEL SYSTEM (WIRING, SWITCH, OR RELAY CONNECTOR PLUG).

1.1.12. MAINTAINS MISCELLANEOUS UTILITY.

1.1.13. MAINTAINS INSTRUMENT, GENERAL.

1.1.14. MAINTAINS RADAR NAVIGATION EQUIPMENT.

1.2. PERFORMS INSPECTION. Performs special, phase, and hourly aircraft inspection.

1.2.1. PERFORMS SPECIAL INSPECTION.

1.2.2. PERFORMS PHASE/HOURLY INSPECTION.

1.3. MAINTAINS AIR CONDITIONING AND PRESSURIZATION SYSTEM. Inspects, troubleshoots, and repairs equipment.

1.3.1. MAINTAINS AIR CONDITIONING AND PRESSURIZATION SYSTEM.

1.3.2. MAINTAINS PRESSURE AND TEMPERATURE INSTRUMENT SYSTEM.

1.3.3. MAINTAINS ANTI-ICING AND DE-ICING SYSTEM.

1.4. MAINTAINS FIRE EXTINGUISHER SYSTEM.

1.5. MAINTAINS OXYGEN SYSTEM. Inspects, troubleshoots, and repairs oxygen system.

1.6. MAINTAINS PNEUDRAULIC AND TURBINE COOLING AIR SYSTEM. Inspects, troubleshoots, and repairs equipment.

1.7. MAINTAINS ESCAPE SYSTEM COMPONENT.

2. OFF-EQUIPMENT MAINTENANCE. Performs in-shop repair action on aircraft component.

2.1. MAINTAINS AIRFRAME ELECTRICAL SYSTEM.

2.2. MAINTAINS AUXILIARY AIRCRAFT EQUIPMENT.

2.3. MAINTAINS LANDING GEAR ELECTRICAL COMPONENT.

2.4. MAINTAINS FLIGHT CONTROL ELECTRIC.

2.5. MAINTAINS ENGINE ELECTRICAL SYSTEM.

2.6. MAINTAINS APU ELECTRICAL SYSTEM.

2.7. MAINTAINS AIR CONDITIONING, PRESSURIZATION, AND SURFACE CONTROL.

2.8. MAINTAINS GENERATOR SYSTEM.

2.9. MAINTAINS LIGHT SYSTEM.

2.10. MAINTAINS HYDRAULIC PNEUMATIC POWER SUPPLY.

2.11. MAINTAINS FUEL SYSTEM (WIRING, SWITCH, OR RELAY CONNECTOR PLUG).

2.12. MAINTAINS MISCELLANEOUS UTILITY.

2.13. MAINTAINS INSTRUMENT, GENERAL.

2.14. MAINTAINS RADAR NAVIGATION EQUIPMENT.

2.15. PERFORMS SPECIAL INSPECTION.

2.16. MAINTAINS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL SYSTEM. Inspects, troubleshoots, and repairs equipment.

2.16.1. MAINTAINS AIR CONDITIONING AND PRESSURIZATION SYSTEM.

2.16.2. MAINTAINS ENGINE ANTI-ICING AND DE-ICING SYSTEM.

2.16.3. MAINTAINS TEMPERATURE AND PRESSURE INSTRUMENT SYSTEM.

2.17. MAINTAINS OXYGEN SYSTEM. Inspects, troubleshoots, and repairs oxygen system.

2.18. MAINTAINS CO₂ LIFE RAFT BOTTLE. Inspects and repairs equipment.

3. SHOP EQUIPMENT AND OTHER NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE). Maintains shop equipment and nonpowered AGE.

4. LIQUID OXYGEN OR NITROGEN CART. Inspects and repairs cart.

5. GROUND HANDLING, SERVICE, AND RELATED TASK. Performs ground handling, service, and related tasking.

6. SHOP SUPPORT GENERAL. Performs shop support general tasking.

7. ASSISTANCE. Assists other production work center in the performance of direct labor maintenance.

8. TIME COMPLIANCE TECHNICAL ORDERS (TCTO). Performs maintenance required on/off the aircraft in accordance with applicable TCTO and completes documentation.

9. MAINTENANCE INSPECTION. Performs in-process inspection on maintenance. Inspects maintenance performed for clearing Red "X" condition and documents.

10. MAINTENANCE AUTOMATED SYSTEM. Makes input to Maintenance Management Information Control System/Core Automated Maintenance System. Retrieves, analyzes, and reconciles data.

11. SPECIAL PLANNING OR SCHEDULING. Performs planning or scheduling associated with preparation for unit training assembly, annual tour, mobility participation, battle damage program, or other special program.

12. CONTINGENCY/EXERCISE. Supports contingency/exercise.

13. DEBRIEFING. Conducts aircrew debriefing. Completes appropriate document.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's special product or service. The major categories of Standard Indirect work are Supervision, Administration, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
Electro/Environmental/FAC 23330C			524.28 - 873.81								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aerospace Propulsion	454X0	CIV	1	1	1						
Aircraft Electro/Environmental Systems	454X5	CIV	3	4	5						
TOTAL			4	5	6						
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
TOTAL											